From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

Assistant Commissioner for Patents United States Patent and Trademark Office **Box PCT**

Washington, D.C.20231 ÉTATS-UNIS D'AMÉRIQUE

in its capacity as elected Office

10 December 1999 (10.12.99)

Date of mailing (day/month/year)

International application No. PCT/GB99/01329

International filing date (day/month/year)

29 April 1999 (29.04.99)

Applicant's or agent's file reference J00040569 WO

Priority date (day/month/year) 13 May 1998 (13.05.98)

Applicant

GHANEA-HERCOCK, Robert, Alan et al

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	09 November 1999 (09.11.99)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

Form PCT/IB/331 (July 1992)

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Authorized officer

Olivia RANAIVOJAONA

Telephone No.: (41-22) 338.83.38



WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



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A1

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(71) Applicant (for all designated States except US): BRITISH
TELECOMMUNICATIONS PUBLIC LIMITED COMPANY [GB/GB]; 81 Newgate Street, London EC1A 7AJ
(GB).

(72) Inventors; and

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- (74) Agents: MUSKER, David, Charles et al.; R.G.C. Jenkins & Co., 26 Caxton Street, London SW1H 0RJ (GB).

(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published

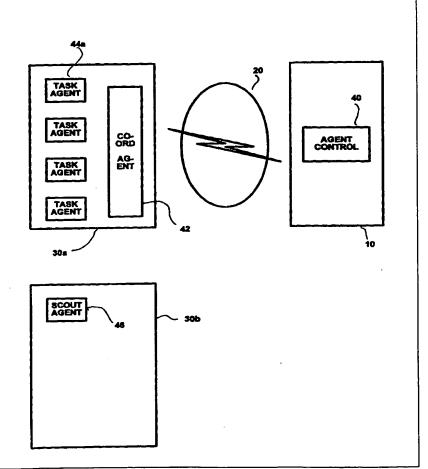
With international search report.

Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: REMOTE COMPUTING

(57) Abstract

A method of remote computing comprising supplying a plurality of parallel processing task programs from a first computer to at least one second computer; supplying a co-ordinating program from said first computer to said second computer; and co-ordinating operation of the task programs through the co-ordinating program.



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Inte. Jonal Application No PCT/GB 99/01329

	FICATION OF SUBJECT MATTER		
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C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant	vant passages	Relevant to claim No.
			
Α	BERGHOFF J ET AL: "Agent-based		1-3,5,
	configuration management of distr	ibuted	9-11,
	applications" PROCEEDINGS. THIRD INTERNATIONAL		13-15, 21-23,
	CONFERENCE ON CONFIGURABLE DISTRI	BUTED	28,29
	SYSTEMS (CAT. NO.96TB100046), PRO		,
	OF INTERNATIONAL CONFERENCE ON		
	CONFIGURABLE DISTRIBUTED SYSTEMS, ANNAPOLIS, MD, USA, 6-8 MAY 1996,	nages	
1	52-59, XP002086942	pages	
İ	ISBN 0-8186-7395-8, 1996, Los Alai		
	CA, USA, IEEE Comput. Soc. Press,	USA	
	page 53, right-hand column, para page 57, right-hand column, parag	graph 2 —	
l	page 37, 1 ight hand straining party		
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[V] 5	ther documents are listed in the continuation of box C.	Patent family members are listed	in annov
	ther documents are listed in the continuation of box o.	Talent ranning members are instead	
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	ent defining the general state of the art which is not dered to be of particular relevance	or priority date and not in conflict with cited to understand the principle or th	
"E" earlier	document but published on or after the international	invention "X" document of particular relevance; the	
"L" docum	ent which may throw doubts on priority claim(s) or	cannot be considered novel or canno involve an inventive step when the do	
citatio	on or other special reason (as specified)	"Y" document of particular relevance; the cannot be considered to involve an in	ventive step when the
	nent referring to an oral disclosure, use, exhibition or means	document is combined with one or ments, such combination being obvious	
	nent published prior to the international filing date but than the priority date claimed	in the art. "&" document member of the same patent	family
	e actual completion of the international search	Date of mailing of the international se	
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2	2 September 1999	09/09/1999	
Name and	mailing address of the ISA	Authorized officer	
	European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk		
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Inter. Snal Application No PCT/GB 99/01329

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See Notification of Transmittal of International

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

J00040569	wo	FOR FURTHER ACTIO	ON Prelimina	ry Examination Report (Form PCT/IPEA/416)
International a	pplication No.	International filing date (day/	month/year)	Priority date (day/month/year)
PCT/GB99/		29/04/1999		13/05/1998
G06F9/46 Applicant	eatent Classification (IPC) or na			
1. This into	ernational preliminary exam ansmitted to the applicant	nination report has been pre according to Article 36.	pared by this In	ternational Preliminary Examining Authority
2. This RE	PORT consists of a total o	f 7 sheets, including this co	ver sheet.	
bee (se	n amended and are the ba e Rule 70.16 and Section 6	isis for this report and/or sho 607 of the Administrative Ins	ets containing	ion, claims and/or drawings which have rectifications made before this Authority the PCT).
These a	annexes consist of a total o	if sheets.		
3. This rep	☒ Basis of the report☐ Priority☐ Non-establishment of		ty, inventive ste	ep and industrial applicability
۱۷ ۷	 ☑ Lack of unity of invent ☑ Reasoned statement citations and explanat 		ard to novelty, ir	nventive step or industrial applicability;
l vi	☐ Certain documents ci			
VII	□ Certain defects in the	international application		
VIII	☐ Certain observations	on the international applicat	ion	
Date of subm	nission of the demand	[ate of completion	of this report
09/11/199	9	1	4.07.2000	
	ailing address of the internation xamining authority: European Patent Office	nal /	uthorized officer	LE STORES MICHAEL TO THE STORES T
<i>)</i>	D-80298 Munich Tel. +49 89 2399 - 0 Tx: 5236	I	hibaudeau. J	
	Fax: +49 89 2399 - 4465		elephone No. +49	9 89 2399 2349

Applicant's or agent's file reference

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB99/01329

I. Basis of the report

1. This report has been drawn on the basis of (substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.): Description, pages: as originally filed 1-21 Claims, No.: as originally filed 1-29 Drawings, sheets: 1111-11/11 as originally filed 2. The amendments have resulted in the cancellation of: ☐ the description, pages: ☐ the claims, Nos.: ☐ the drawings, sheets: 3.

This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)): 4. Additional observations, if necessary: IV. Lack of unity of invention 1. In response to the invitation to restrict or pay additional fees the applicant has: restricted the claims.

paid additional fees.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB99/01329

		paid additional fees unde	r protes	t.	
		neither restricted nor paid	d additio	nal fees.	
2.	Ø	This Authority found that 68.1, not to invite the app	the requ	uirement o restrict (t of unity of invention is not complied and chose, according to Rule or pay additional fees.
3.	Thi	s Authority considers that	the requ	iirement d	of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is
		complied with.			
	⊠	not complied with for the	followin	ng reason	ns:
		see separate sheet			
4.	Co	nsequently, the following pamination in establishing the	arts of the	the intern rt:	national application were the subject of international preliminary
	\boxtimes	all parts.			
		the parts relating to clain	ns Nos.		
٧	. Re ap	easoned statement under plicability; citations and	· Article explan	e 35(2) wi ations su	vith regard to novelty, inventive step or industrial supporting such statement
1	. Sta	atement			
	No	ovelty (N)	Yes: No:	Claims Claims	
	ln	ventive step (IS)	Yes: No:	Claims Claims	
	In	dustrial applicability (IA)	Yes: No:	Claims Claims	
2	. Ci	itations and explanations			
	se	ee separate sheet			
\	/II. C	Certain defects in the inte	ernation	nal applic	ication

The following defects in the form or contents of the international application have been noted:

Form PCT/IPEA/409 (Boxes I-VIII, Sheet 2) (January 1994)

see separate sheet

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB99/01329

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Reference is made to the following documents: 1.

D1 = "Agent design patterns: elements of agent application design", Aridor and Lange, Proceedings of the Second International Conference on Autonomous Agents, 9-13 May 1998, pages 108-115.

D1 is already cited in the description.

Item IV: Lack of unity of invention 2.

Claims 1 and 29 relate to a remote computing system comprising a first computer and at least one second computer, said first computer transmitting through a communication link data defining a computing team, said team comprising a first coordinating program and at least one second program for performing at least a part of a task when executed on the second computer.

Claim 21 relates to a remote computing system comprising a first computer and at least one second computer, said first computer transmitting through a communication link mobile program data defining a mobile program for performing at least a part of a task when executed on the second computer, the first computer being arranged to determine whether said second computer can support execution of said mobile program and, if not, to transmit data defining a mobile program support environment to be executed on said second computer.

Claim 23 relates to a remote computing system comprising a first computer and at least one second computer, said first computer transmitting through a communication link mobile program data defining a mobile program for performing at least a part of a task when executed on the second computer, the first computer being arranged to generate a graphical display showing the second computer and each mobile program resident thereon.

Therefore the concept which is common to claims 1 and 29, claim 21 and claim 23 is the transmission of a single program from a first computer to at least one second computer to perform tasks when executed on the second computer and

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT - SEPARATE SHEET**

communicating with the first computer (return of results). This corresponds to the definition of a mobile agent which is disclosed, for example, in D1. Therefore claims 1 and 29, 21 and 23 are not so linked as to form a single general inventive concept (Rule 13.1 PCT).

Item V: Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, 3. inventive step or industrial applicability; citations and explanations supporting such statement

As far as they can be understood (see objections under item VIII), the claims seem to meet the criteria set forth in Article 33(1) PCT with respect to the available prior art.

Item VII: Certain defects in the international application 4.

- i) To meet the requirements of Rule 6.3(b) PCT the independent claims should have been properly cast in the two part form, with those features which in combination are part of the prior art (see document D1) being placed in the preamble.
- ii)The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).

Item VIII: Certain observations on the international application 5.

The application does not meet the requirements of Article 6 PCT, because claims 1 and 29 are not clear.

Indeed said claims comprise a coordinating program performing a coordinating operation. Claim 29 only recites that a plurality of tasks programs executed on a second (remote) computer are coordinated. Claim 1 comprises that said coordinating program coordinates each one of said plurality of tasks programs (second program) and communicates with the first computer and with each

International application No. PCT/GB99/01329 INTERNATIONAL PRELIMINARY **EXAMINATION REPORT - SEPARATE SHEET**

second program. The role of the coordinating program is therefore not clear. It is clear from the description on page 6, lines 5-18 that this role is essential to the performance of the invention. Since independent claims 1 and 29 do not contain the corresponding features they do not meet the requirement that any independent claim must contain not only all the technical features essential to define the invention but also all the technical features essential to the performance of the invention (see PCT Guidelines, PCT/GL/3, III, 4.3, second and third sentences).

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IIII)



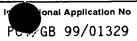
INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

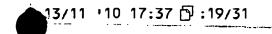
Applicant's or agent's file reference	FOR FURTHER see Noti	ification of Transmittal of International Search Report CT/ISA/220) as well as, where applicable, item 5 below.
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International application No.	International filing date (day/month/	/year) (Earliest) Priority Date (day/month/year)
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Applicant		
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according to Article 18. A copy is being tra This International Search Report consists	ansmitted to the International Bureau.	ets.
Basis of the report	1	
a. With regard to the language, the	/ international search was carried out o ess otherwise indicated under this ite	on the basis of the international application in the em.
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a trans	elation of the international application furnished to this
was carried out on the basis of the contained in the internation	d/or amino acid sequence disclosed e sequence listing: onal application in written form. ornational application in computer read	d in the international application, the international search
furnished subsequently to	this Authority in written form.	
. —	this Authority in computer readble fo	
	osequently furnished written sequence is filed has been furnished.	e listing does not go beyond the disclosure in the
the statement that the info furnished	ormation recorded in computer readal	ble form is identical to the written sequence listing has been
	nd unsearchable (See Box I).	
3. Unity of invention is lac	king (see Box II).	
4. With regard to the title,	`\	
X the text is approved as su	ubmitted by the applicant.	
the text has been establis	shed by this Authority to read as follow	ws:
5. With regard to the abstract,		•
l`	ubmitted by the applicant.	
the text has been established	shed, according to Rule 38,2(b), by th	nis Authority as it appears in Box III. The applicant may, search report, submit comments to this Authority.
6. The figure of the drawings to be pub	lished with the abstract is Figure No.	
X as suggested by the app	licant.	None of the figures.
because the applicant fai	led to suggest a figure.	
because this figure bette	r characterizes the invention.	

In Conal Application No PC GB 99/01329

A. CLASSII IPC 6	FICATION OF SUBJECT MATTER G06F9/46		
According to	International Patent Classification (IPC) or to both national classific	cation and IPC	
B. FIELDS	SEARCHED		
Minimum do IPC 6	cumentation searched (classification system followed by classification $G06F$	ion symbols)	
Documentat	ion searched other than minimum documentation to the extent that	such documents are included in the fields so	arched
Electronic d	ata base consulted during the international search (name of data b	ase and, where practical, search terms used)
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		-
Category °	Citation of document, with indication, where appropriate, of the re	elevant passages	Relevant to claim No.
A	BERGHOFF J ET AL: "Agent-based configuration management of dist applications" PROCEEDINGS. THIRD INTERNATIONAL CONFERENCE ON CONFIGURABLE DISTR SYSTEMS (CAT. NO.96TB100046), PR OF INTERNATIONAL CONFERENCE ON CONFIGURABLE DISTRIBUTED SYSTEMS ANNAPOLIS, MD, USA, 6-8 MAY 1996 52-59, XP002086942 ISBN 0-8186-7395-8, 1996, Los Al CA, USA, IEEE Comput. Soc. Press page 53, right-hand column, par page 57, right-hand column, para	IBUTED OCEEDINGS , pages amitos, , USA agraph 2 -	1-3,5, 9-11, 13-15, 21-23, 28,29
X Furt	her documents are listed in the continuation of box C.	Patent family members are listed	in annex.
"A" docum consi "E" earlier filing ' "L" docum which citatic "O" docum other	ent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international date ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another on or other special reason (as specified) ment referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but than the priority date claimed	"T" later document published after the int or priority date and not in conflict with cited to understand the principle or the invention. "X" document of particular relevance; the cannot be considered novel or cannot involve an inventive step when the difference of particular relevance; the cannot be considered to involve an indocument is combined with one or ments, such combination being obvious the art. "&" document member of the same paten	n the application but neory underlying the claimed invention of the considered to ocument is taken alone claimed invention nentive step when the lore other such docupous to a person skilled
Date of the	actual completion of the international search	Date of mailing of the international se	earch report
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Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,	Authorized officer Fonderson, A	



A OBJETCSPACE INC.: OBJECTSPACE VOYAGER CORE PACKAGE TECHNICAL OVERVIEW, December 1997 (1997–12), XP002086943 http://www.objectspace.com/developers/white/VoyagerTech0view.pdf the whole document A VOGEER H ET AL: "Using multiple mobile agents for distributed transactions" PROCEEDINGS. 3RD IFCIS INTERNATIONAL CONFERENCE ON COOPERATIVE INFORMATION SYSTEMS (CAT. NO.98EX122), PROCEEDINGS OF THIRD IFCIS CONFERENCE ON COOPERATIVE INFORMATION SYSTEMS (COPIS) 98), NEW YORK, NY, USA, 20-22 AUG. 1998, pages 114-121, XP002086944 ISBN 0-8186-8380-5, 1998, Los Alamitos, CA, USA, IEEE Comput. Soc, USA page 117, right-hand column, paragraph 3 - page 120, left-hand column, paragraph 3		<u> </u>	PC-/GB 99/01329
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PACKAGE TECHNICAL OVERVIEW, December 1997 (1997-12), XP002086943 http://www.objectspace.com/developers/whit e/VoyagerTechOview.pdf the whole document A VOGLER H ET AL: "Using multiple mobile agents for distributed transactions" PROCEEDINGS. 3RD IFCIS INTERNATIONAL CONFERENCE ON COOPERATIVE INFORMATION SYSTEMS (CAT. NO.98EX122), PROCEEDINGS OF THIRD IFCIS CONFERENCE ON COOPERATIVE INFORMATION SYSTEMS (COOPIS'98), NEW YORK, NY, USA, 20-22 AUG. 1998, pages 114-121, XP002086944 ISBN 0-8186-8380-5, 1998, Los Alamitos, CA, USA, IEEE Comput. Soc, USA page 117, right-hand column, paragraph 3	Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
agents for distributed transactions" PROCEEDINGS. 3RD IFCIS INTERNATIONAL CONFERENCE ON COOPERATIVE INFORMATION SYSTEMS (CAT. NO.98EX122), PROCEEDINGS OF THIRD IFCIS CONFERENCE ON COOPERATIVE INFORMATION SYSTEMS (COOPIS'98), NEW YORK, NY, USA, 20-22 AUG. 1998, pages 114-121, XP002086944 ISBN 0-8186-8380-5, 1998, Los Alamitos, CA, USA, IEEE Comput. Soc, USA page 117, right-hand column, paragraph 3	A	PACKAGE TECHNICAL OVERVIEW, December 1997 (1997-12), XP002086943 http://www.objectspace.com/developers/whit e/VoyagerTech0view.pdf	1-29
		agents for distributed transactions" PROCEEDINGS. 3RD IFCIS INTERNATIONAL CONFERENCE ON COOPERATIVE INFORMATION SYSTEMS (CAT. NO.98EX122), PROCEEDINGS OF THIRD IFCIS CONFERENCE ON COOPERATIVE INFORMATION SYSTEMS (COOPIS'98), NEW YORK, NY, USA, 20-22 AUG. 1998, pages 114-121, XP002086944 ISBN 0-8186-8380-5, 1998, Los Alamitos, CA, USA, IEEE Comput. Soc, USA page 117, right-hand column, paragraph 3	
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ints. Jonal Application No.

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IPC 6	FICATION OF SUBJECT MATTER G06F9/46		
According to	o International Patent Classification (IPC) or to both national classific	ation and IPC	
B. FIELDS	SEARCHED		
IPC 6	ocumentation searched (classification system followed by classification $G06F$	lon symbols)	
Documental	tion searched other than minimum documentation to the extent that	such documents are included in	ine fielde searched
Electronic d	ate base consulted during the international search (name of data or	se and, where precicel, search	terms used)
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT		
Calegory *	Citation of document, with indication, where appropriate, of the re	event pessages	Refevent to claim No.
A	BERGHOFF J ET AL: "Agent-based configuration management of distrapplications" PROCEEDINGS. THIRD INTERNATIONAL CONFERENCE ON CONFIGURABLE DISTR SYSTEMS (CAT. NO.96TB100046), PROCEEDINGS, MD. USA, 6-8 MAY 1996 52-59, XP002086942 ISBN 0-8186-7395-8, 1996, Los Alaca, USA, 1EEE Comput. Soc. Press page 53, right-hand column, parages 57, right-hand column, parages 58, right-hand column, parages 59, right-hand column, parages 50, right-h	IBUTED DCEEDINGS pages amitos USA agraph 2 -	1-3.5, 9-11. 13-15, 21-23. 28,29
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